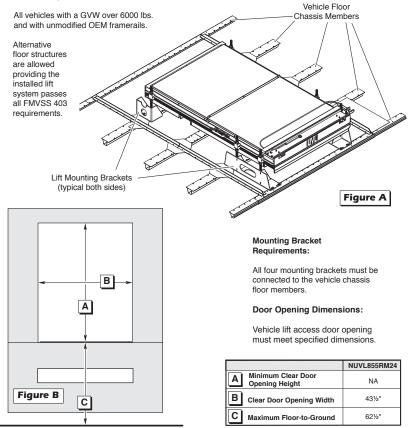
Braun Corporation FMVSS No. 403 Quick Reference Installation Sheet 34274 Rev: A

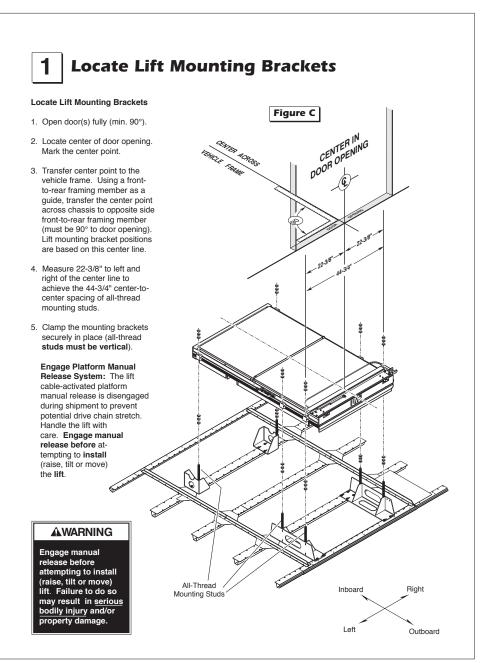
"DOT — Public Use Lift"

NHTSA Vehicle Physical Requirements

"DOT - Public Use Lift" verifies this platform lift meets the "public use lift" requirements of FMVSS No. 403. This lift may be installed on all vehicles appropriate for the size and weight of the lift, but must be installed on buses, school buses, and multi-purpose passenger vehicles other than motor homes with a gross vehicle weight rating (GVWR) that exceeds 4,536 kg (10,000 lb).

Vehicle Requirements:





2

Secure Lift

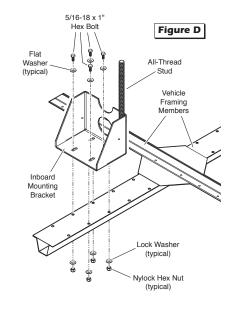
1. Attach Mounting Brackets to Vehicle Framing Members

Position lift mounting brackets as detailed in Step 1 (see Figures C, D and F). Oval slotted mounting holes are provided in the mounting brackets to allow adjustment. **Carefully** drill 21/64" (.328") diameter mounting holes at the center of the oval mounting slots (holes may be present).

Twenty 5-16-18 x 1" hex bolts are supplied for bolting the lift mounting brackets to the vehicle framing member (four per inboard bracket and six per outboard bracket).

Place a flat washer onto each mounting bott. Insert bolts through mounting bracket, vehicle floor and framing member as shown in Figure D. Installation is typical for all brackets (outboard brackets require 6 mounting bolts each).

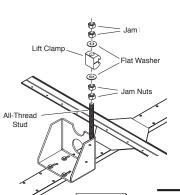
All fasteners **must** meet FMVSS 571.403 Section 6.3.

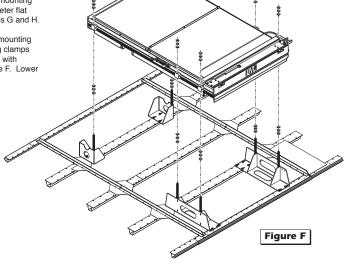


2. Position and secure lift.

Thread two 3/4" hex jam nuts fully onto each mounting bracket all-thread stud. Place one large diameter flat washer onto each all-thread stud. See Figures G and H.

Carefully position lift in vehicle (aligned with mounting brackets). Position (slide) the six lift mounting clamps along the sides of the lift housing until aligned with mounting bracket all-thread studs. See Figure F. Lower lift onto mounting bracket studs





3. Height Adjustment

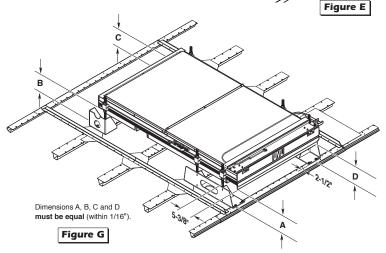
The lift outer barrier must be aligned with the vehicle access hole.

The lift housing must be aligned with vehicle chassis (level). Adjust the 3/4" hex jam nuts on the all-thread mounting studs at all 4 corners of the lift until dimensions A, B, C and D are equal (within 1/16"). See Figure G.

Place one large diameter flat washer onto each mounting bracket all-thread stud. Thread two 3/4" hex jam nuts fully onto each all-thread stud (against lift mounting clamp).

In-Out Positioning

Position the lift to achieve a 2" overlap between the deployed inboard barrier and the vehicle floor.



Jam Nuts Flat Washer Lift Clamp Flat Washer Jam Nuts All-Thread Mounting Stud Mounting Bracket Figure H

4. Horizontial Adjustment

Shift lift and mounting brackets left-to-right as needed (lift must be centered in door opening). Tighten the 5/16" bolts securing mounting brackets (shown in Figure D) to the frame.

Torque Specifications: 20 foot pounds.

Tighten upper set of 3/4" hex jam nuts (with flat washer) down to the lift mounting clamps. **Tighten jam nuts**.

Torque Speci□cations: 100 to 120 foot pounds.

Shipping Block Removal:

Wood blocks are placed in the lift housing to prevent lift damage during shipment. Remove shipping blocks from platform and carriage before running (activating) lift. Refer to Shipping Block Removal Instruction 28942.

Electrical, Hydraulic and Interlock

3/8"-16 x 1" Hex Bolts with Flat

Washer and Nylock® Hex Nuts

Pump Module Mounting

Mount the pump module case to the inner wall of the adjacent storage compartment as shown in Figure I.

Check for obstructions before drilling, cutting holes or installing mounting hardware.

hydraulic hose, wiring harness and manual release cable access holes before mounting pump. A 3" diameter plastic grommet may be used (supplied).

Hvdraulics:

Figure I

1/4-20 x 3/4"

Hex Bolts

(Typical)

Remove the plug from 1/4" diameter clear vent tube. See Figure L.

Route hydraulic hose assembly through compartment wall to quickdisconnect fitting at lift. Connect hose.

Note:

Remove

plug from

vent tube.

detailed.

Disconnect

and remove

Connect red positive

(+) power cable here

(from Circuit Sentry).

Circuit Sentry: Install Circuit Sentry as shown in Figure K. Attach power cable and lead cable as Figure K

interlock signal wires

Calibration and Floor Level Adjustment

Following electrical. hvrdaulic and interlock installation, check calibration and floor level adjustments as defined in Panel 4.

Vehicle and Lift Interlocks

The pump module is equipped with a lift interface 9-circuit connector (female socket). A mating 9-circuit connector (male plug) is supplied. To meet minimum NHTSA requirements. connect to vehicle interlock harness as outlined in Figure L (Steps 1-4).

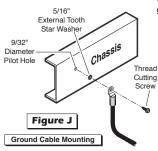
Note: Locate and drill

Vehicle Battery Ground Cable: Pump Ground Cable:

Adjacent

Compartment . Wall

One ground cable is pump mounted. Connect cable to a vehicle framing member (see Figure J).



A ground cable (minimum 2 gauge) must be connected from vehicle battery negative post to the same vehicle framing member the pump ground cable is attached to.

> **Ground Cable Corrosion:** When mounting ground cables, remove undercoating, dirt, rust, etc. from framing member around mounting holes. Apply protective coating to mounting holes to prevent corrosion. Failure to do so will void warranty of certain electrical components.

Note: All wiring harness

connections must be inside the pump module box.

Housing/Carriage Harnesses:

Route two main wiring harnesses from lift to pump module. Connect to mating harnesses at pump.

Beeper/Strobe Alarm and Platform Lights:

Connect harnesses to mating harnesses at pump module.

Threshold Warning Sensor:

Connect both threshold sensor mat harnesses to mating Y-harness at pump module (labeled). Both mats must be installed on a flat rigid

Inboard edge of inboard mat must be minimum 18" from edge of finished floor or stepwell.

Figure L

Calibration and Floor Level Adjustment

Platform Sense Calibration

- 1. There must be no weight on platform.
- 2. Press hand-held pendant UP switch to raise platform a minimum 3" above stow level
- 3. Press and hold control board 50# CAL. button. While pressing the 50# CAL. button, press and hold the hand-held pendant STOW switch (button). The platform will lower to stow level (begin stow function), and then start to raise. Release 50# CAL. button immediately when platform starts to raise from stow
- 4. After calibration, the LCD screen should read "PF OCCUPIED" whenever there is 50 lbs. or more present on the platform. The 50 pound platform sensing is now calibrated.

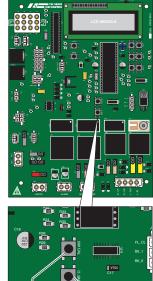
Ground Sense Calibration

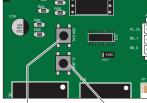
- 1. Press hand-held pendant DOWN switch to lower platform fully to ground level.
- 2. While continuing to press the pendant DOWN switch, press and then release the control board O BAR GND. button.
- 3. Release the pendant DOWN switch. Ground level sensing is now calibrated.

Outer Barrier Occupied Calibration

- 1. Press hand-held pendant DOWN switch to lower platform fully to around level.
- 2. Once outer barrier is fully unfolded (ramp position), release the pendant DOWN switch.
- 3. Press and hold the control board O BAR GND, button, While holding O_BAR GND. button, press hand-held pendant UP switch to raise the outer barrier. Be sure to release O BAR GND. button when outer barrier reaches approximately half full up (vertical) position
- 4. After calibration, the LCD screen should read "OUT-BAR OCCU-PIED" whenever there is weight present on the outer barrier.

NUVL855RM24 Control Board





50# CAL Button

O BAR GROUND LVL Button

Floor Level Switch

The Floor Level switch stops upward travel of the platform during the Up function (activated by the torque tube-mounted Floor Level cam). Position the lift platform 1" above floor level using the manual operation system (detailed on opposite side of this sheet). Loosen the clamp securing the torque tube-mounted Floor Level cam. Rotate the cam until the Floor Level switch is activated (cam depresses switch).

Note: Check the floor level position of the platform and the inner roll stop after powering the pump. Hydraulic pressure may affect platform height slightly. Fine tuning adjustment (tweaking) of the Floor Level switch may be required.

The inner roll stop must rest properly on the vehicle floor when the lift is deployed. Adjust the inner roll stop only if necessary (refer to the service manual).



Torque Tube

Cam depressing switch.

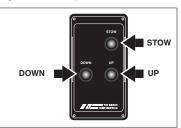
FMVSS 403/404 Certification Checklist Visual and Audible DOT — Public Use Lift Threshold Warning Public use vehicle manufacturers are responsible for complying with the lift lighting requirements in Fed-Platform Liahtina eral Motor Vehicle Safety Standard No. 404, Platform Lift Installation in Motor Vehicles (49 CFR 571.404). The operations listed below must be functionally verified Vehicle movement is prevented unless the lift door The outer barrier will not raise if occupied. is closed, ensuring the lift is stowed. A visual and audible warning will activate if the Lift operation shall be prevented unless the threshold area is occupied when the platform is at vehicle is stopped and vehicle movement is least one inch below floor level. prevented. Platform movement is prohibited beyond the posi-The platform will not fold/stow if occupied. tion where the inner roll stop is fully deployed (up). The inner roll stop will not raise if occupied. Lift platform movement shall be interrupted unless the outer barrier is deployed (up). Verify platform lighting when lift is deployed and pendant illumination when lift is powered. 34274 Rev. A

Lift Operating Instructions

In the event of power failure, refer to the Manual Operating Instructions to operate the lift.

Hand-held Pendant Control:

The hand-held attendent's pendant control is equipped with three push button switches (STOW, DOWN and UP). The momentary switches activate the automatic lift functions. Simply press the switch labeled for the intended function. When there is power to the lift, the lift function labels illuminate to identify the functions.





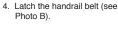
TO DEPLOY PLATFORM:

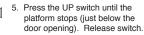
- 1. Stand Clear and press the UP switch until the platform stops (extends fully). Release Switch.
- 2. Lift handrail latch handles, deploy handrails up to vertical position and lower latch handles fully. See Handrail Operating Instructions.











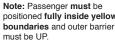


7. Press the UP switch until the platform stops (raises to floor level) and the inner roll stop unfolds fully to floor level position. Release switch. See Photo D.



TO UNLOAD PASSENGER:

wheelchair brakes.



2. Press DOWN switch until platform stops (just below the door





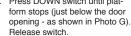




1. Read Note below! Load passenger onto platform and lock



positioned fully inside yellow boundaries and outer barrier must be UP.

















Release switch. See Photo G. 5. Unlatch handrail belt, unlock wheelchair brakes and unload passenger from platform.

4. Press the DOWN switch until the entire platform reaches ground level and both outer barriers

unfold fully (ramp position).

Note: Outer barriers must be fully unfolded (ramp position) until the entire wheelchair (or standee has crossed both outer barriers. See Photos I and J.



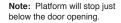
TO LOAD PASSENGER:

1. Read Notes below! Load passenger onto platform, lock wheelchair brakes and latch handrail belt.



Note: Passenger must be positioned fully inside yellow boundaries.

2. Press the UP switch to fold both outer barriers up fully (vertical) and raise the platform until the platform stops. Release switch.



- 3. Open bus door fully. See Photo
- 4. Press the UP switch until the platform stops (raises to floor level) and the inner roll stop unfolds fully to floor level position. Release switch.
- 5. Unlock wheelchair brakes and unload passenger from platform.







TO STOW PLATFORM:

- 1. Latch handrail belt. See Photo B
- 2. Press the STOW switch until platform stops at stow level. Release switch.
- 3. Unlatch handrail belt.
- 4. Fold tall outer barrier down to platform (horizontial) position.
- 5. Lift handrail latch handles, stow handrails down to platform (horizontial) position and lower latch handles fully.
- 6. Press the STOW switch until the platform stops (retracts fully).



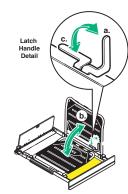
Handrail Operating Instructions

 Fold tall (yellow) outer barrier down.



Note: Order of procedures shown is for stowing lift. To deploy handrails and barrier after extending the platform, reverse order of procedures.

- 2. a. Lift latch handle.
 - b. Deploy / Stow handrail.
 - c. Lower latch handle.
- 3. a. Lift latch handle.
 - b. Deploy / Stow handrail.
 - c. Lower latch handle.



Manual Operating Instructions

Familiarize yourself with the components necessary to manually operate the lift. The T-handle release cable releases and engages the lift platform to allow the platform to be manually extended and retracted. The manual back-up pump (hand pump) is used to manually lower and raise the extended platform.



Cable Activated Platform Manual Release System: A cable-activated manual release system releases and engages the platform carriage assembly drive chain to allow the platform carriage assembly to be manually moved out (extended) or moved in (retracted) as needed. A T-handle is provided on the release cable for activation of the manual release system (details follow).

After manually moving the platform in or out, it is extremely important that the cable-activated manual release is positively re-engaged to secure (lock) the platform carriage assembly before loading a passenger on the platform or before driving the vehicle

After manually releasing platform, push manual release T-handle in fully and ensure platform is locked before driving lift vehicle.

Uncontrolled and unintentional platform deployment (inadvertent platform ejection) may result in serious bodily injury and/or property damage.



OUT (TO EXTEND PLATFORM):

- 1. Pull T-Handle.
- 2. Turn T-Handle to lock platform in released position.
- 3. Pull platform out.
- 4. Turn T-Handle.
- 5. Push T-Handle in.
- Grasp outer barrier and attempt to move platform in and out until the platform locks (feel release mechanism engage).

DOWN (TO LOWER PLATFORM):

Using hand pump handle, open hand pump valve (turn counter-clockwise). Open 1/2 turn only.

DOWN (TO UNFOLD OUTER BARRIER):

- 1. Remove hairpin cotter from detent pin.
- 2. Remove detent pin.
- 3. Unfold (rotate) barrier down.

UP (TO FOLD OUTER BARRIER):

- 1. Fold (rotate) barrier up.
- 2. Insert detent pin.
- 3. Insert hairpin cotter in detent pin.

UP (TO RAISE PLATFORM):

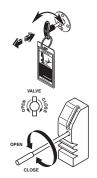
Using hand pump handle:

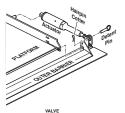
- 1. Close hand pump valve (turn clockwise).
- 2. Insert handle in pump and stroke.

Note: Close valve before operating electric pump.

IN (TO STOW PLATFORM):

- Raise or lower platform to stow level (follow UP or DOWN procedures).
- 2. Pull T-Handle.
- 3. Turn T-Handle to lock platform in released position.
- 4. Push platform in.
- 5. Turn T-Handle.
- Push T-Handle in.
- Grasp outer barrier and attempt to move platform in and out until the platform locks (feel release mechanism engage).









Maintenance and Lubrication

Proper maintenance is necessary to ensure safe, troublefree operation. Inspecting the lift for any wear, damage or other abnormal conditions should be a part of all transit agencies's daily service program. Simple inspections can detect potential problems.

The maintenance and lubrication procedures speciDed in the following schedule must be performed by a Braun authorized service representative at the scheduled intervals according to the number of cycles. NHTSA NUVL Series lifts are equipped with a cycle counter (digital display built into the electronic control board).

NUVL Series lifts are equipped with hardened pins and self-lubricating bushings to decrease wear, provide smooth operation and extend the service life of the lift.

When servicing the lift at the recommended intervals, inspection and lubrication procedures specified in the previous sections should be repeated. Clean the components and the surrounding area before applying lubricants. LPS2 General Purpose Penetrating Oil is recommended where Light Oil is called out. Use of improper lubricants can attract dirt or other contaminants which could result in wear or damage to the components. Platform components exposed to contaminants when lowered to the ground may require extra attention.

Lift components requiring grease are lubricated during assembly procedures. When replacing these components, be sure to apply grease during installation procedures. SpeciDed lubricants are available from The Braun Corporation (part numbers below).

All listed inspection, lubrication and maintenance procedures should be repeated at "750 cycle" intervals following

the scheduled "4500 Cycles" maintenance. These
intervals are a general
guideline for scheduling
maintenance procedures
and will vary according to
lift use and conditions. Lifts
exposed to severe conditions (weather, environment, contamination, heavy
usage, etc.) may require
inspection and maintenance
procedures to be performed
more often than specified.

Maintenance Indicator:

A Lift Ready green LED is mounted on the hand-held

pendant storage bracket. The green LED will change color to yellow after every 750 cycles. The yellow LED will not affect the functions of the lift, but is a reminder to perform necessary maintenance and lubrication procedures.

AWARNING

Maintenance and lu-

brication procedures

must be performed

as speci⊡ed by an

authorized service

Failure to do so may

bodily injury and/or

property damage.

result in serious

technician.

Once the lift has been serviced, press the CYCLE button (located below LCD display on the control board) until the Lift Ready LED changes back to green. The CYCLE button also clears the lift cycle count (since last service) but not the lifetime cycle count.

Discontinue lift use immediately if maintenance and lubrication procedures are not properly performed, or if there is any sign of wear, damage or improper operation. Contact your sales representative or call The Braun Corporation at 1-800-THE LIFT®. One of our national Product Support representatives will direct you to an authorized service technician who will inspect your lift.

Lubrication Diagram Drive Chain and Rollers Drive Chain Release Latch Hydraulic Cylinder Eccentric Pivot LO (bearings) Platform Cable-activated Rolling Cylinder LO Carriage Tube Lifting Arm Pivot Points DE Eccentric Shaft and Carriage Rollers LO Pivot Points LO Barrier (tall) Outer Barrier Lifting Arm @ Pivot Points Inner Roll Stop Inner Roll Stop Linkage Pivot Points Hinge Pivot Points and Eccentric Outer Barrier (short) Inner Roll Shaft and Stop Catch Carriage Lower Closure LO (bearings)

	s	Speci□ed (recommended)		Braun	
Lubricant	Туре	Lubricant	Amount	Part No.	
LO - Light Oil	Light Penetrating Oil	LPS2, General Purpose	11 oz.	15807	
LO - Light On	(30 weight or equivale	nt) Penetrating Oil	Aerosol Can		
DE - Door-Ease	Stainless Stick	Door-Ease	1.68 oz.	15806	
DE - DOOI-Ease	Style (tube)	Stick (tube)		13000	
SG - Synthetic Grease	Synthetic Grease	Mobiltemp SHC32	12.5 oz.	00500	
	(Multipurpose)		Tube	28598	

	Outer barrier and lower closure pivot points (2)	Apply Light Oil - See Lubrication Diagram		
	Outer barrier detent pin pivot points (2)	Apply Light Oil - See Lubrication Diagram		
	Inner roll stop hinge pivot points	Apply Light Oil - See Lubrication Diagram		
	Inner roll stop linkage pivot points	Apply Light Oil - See Lubrication Diagram		
	Lifting arm center and platform pivot points (bearings at all points)	Apply Light Oil - See Lubrication Diagram		
	Inspect outer barrier and lower closure for proper operation	Correct or replace damaged parts.		
	Inspect outer barrier seal and lower closure gasket	Resecure, replace or correct as needed		
750 Cycles	Inspect outer barrier detent pin hairpin cotter	Ensure hairrpin cotter is present and can be removed and inserted easily. Resecure, replace or correct as needed.		
	Inspect lift for wear, damage or any abnormal condition	Correct as needed.		
	Inspect lift for rattles	Correct as needed.		
	Check drive chain tension.	Pull out and lock manual release cable. Adjust chain tension as needed. See Drive Chain Adjustment.		
	Inspect inner roll stop (bridge plate) and linkage for: Proper operation. Roll stop should rest solidly on Dor providing smooth transition. Positive securement Wear or damage	Resecure, replace or correct as needed. See Inner Roll Stop Adjustment Instructions.		
	Check carriage ride height in housing	Adjust as needed. See Carriage Ride Height Adjustment.		
	Check stow height/lifting arm alignment	Lifting arms should be horizontal, aligned with each other and aligned with carriage. Adjust as needed. See Switch Adjustment (Below Stow Switch).		
	Inspect wiring harnesses for securement, wear or other damage	Resecure, replace or correct as needed		
	Check lower pan securement	Resecure, replace damaged parts or correct as needed.		
	Torque tube pivot bearings (4 places)	Apply Light Oil - See Lubrication Diagram		

Maintenance and Lubrication

Apply Light Oil - See Lubrication Diagram

Carriage and eccentric shaft rollers (bearings)

	Carriage and eccentric shaft rollers (bearings)	Apply Light Oil - See Lubrication Diagram
	Lifting arm slots in rolling horizontial carriage arm tubes	Apply Door Ease - See Lubrication Diagram. Apply to the surface area around both slots and wipoff excess
	Hydraulic cylinder pivot points (4 per cylinder)	Apply Light Oil - See Lubrication Diagram
	Drive chain and chain rollers	Apply Light Oil - See Lubrication Diagram
	Drive chain release latch mechanism	Apply Synthetic Grease - See Lubrication Diagram
	Deploy lift, remove inboard and outboard lower pans and blow out housing. Blow off platform also.	Use compressor and nozzle to remove all debris from housing. Clean outboard lower pan slot and apply Antisieze to slot before reinstalling pan.
	Deploy lift, remove inboard and outboard lower pans and clean housing tracks	Use clean cloth and solvent to clean tracks. Clea lower pan slot and apply Antisieze to slot before reinstalling pan.
	Check drive chain tensioner, jam nuts and connecting link for securement and/or misalignment.	Correct or replace damaged parts and/or relubricate. See Drive Chain Adjustment.
	Inspect drive chain release latch mechanism for proper operation, positive securement, wear or other damage	Correct or replace damaged parts and/or relubricate.
	Inspect platform cable-activated manual release system (T-handle/cable assembly and carriage movement)	Ensure T-handle release and cable assembly operate properly (see Manual Operation). Ensure carriage can be manually extended and retracted freely.
1500 Cycles	Inspect limit switches for securement and proper adjustment	Resecure, replace or adjust as needed. See Switch Adjustment.
	Inspect carriage, lifting arm and eccentric shaft rollers (bearings) for wear or damage, positive securement and proper operation	Correct, replace damaged parts and/or relubricate
	Inspect external snap rings (e-clips):	Resecure, replace or correct as needed.
	Inspect lower lifting arm pins for wear or damage, positive securement and proper adjustment	Resecure, replace damaged parts, lubricate or correct as needed.
	Inspect eccentric shaft pins, bearing mounting screw, washers and securement hardware for wear or damage, positive securement and proper operation	Resecure, replace damaged parts, lubricate or correct as needed. See Carriage Ride Height Adjustment.
	Inspect torque tube cams for securement, wear or damage	Resecure, replace or correct as needed.
	Inspect housing cam brackets for securement, wear or damage	Resecure, replace or correct as needed.
	Inspect cylinder(s), hoses, □tings and hydraulic connections for wear, damage or leaks	Tighten, repair or replace if needed.
	Inspect power cable	Resecure, repair or replace if needed.

4500 Cycles	Hydraulic Fluid (Pump) - Check level. Note: Fluid should be changed if there is visible contamination. Inspect the hydraulic system (cylinder, hoses, ⊔tings, seals, etc.) for leaks if ⊔id level is low.	Use 5606 aviation □id only (part 87010R-MILL). Check □id level with platform lowered fully. Fill to within 1-1/2" of the bottom of the □l tube (neck).		
	Inspect lifting arm bushings and pivot pins for visible wear or damage	Replace if needed.		
	Inspect outer barrier pivot pin mounting bolts (2)	Tighten or replace if needed		
	Mounting	Check to see that the lift is securely anchored to the vehicle and there are no loose bolts, broken welds, or stress fractures.		
	Decals and Antiskid	Replace decals if worn, missing or illegible. Replace antiskid if worn or missing.		

Adjustments and Diagnostics

Drive Chain Adjustment

750 Cycle

Intervals

In event the drive chain sags 1/2" or more, adjust tension as detailed.

Consecutive Repeat all previously listed inspection, lubrica-

tion and maintenance procedures at 750 cycle

- Tighten to eliminate visible sag but do not overtighten.
- 1. Remove bottom pan.
- 2. Pull the manual release cable and lock.

intervals

- Remove adjustment bolt (tensioner) access cover.
- Loosen inside jam nut. Secure tensioner and tighten outside jam nut. Tighten to eliminate visible chain sag but do not overtighten.
- 5. Lock jam nuts together making sure the tensioner roller is horizontial. Release and push the manual cable in fully. Ensure platform is locked by moving the platform in and out until chain release assembly engages chain.

Carriage Ride Height Adjustment

The carriage horizontal arms move (roll) in and out of the housing tracks on roller bearings. Following installation or extensive lift operation, clearance between horizontal arms and tracks may diminish. The eccentric shaft mounting plate allows height adjustment.

Remove eccentric plate mounting screw. Using screw-driver or small rod, rotate the shaft clockwise to increase carriage height. Rotate the shaft counterclockwise to decrease carriage height. Reinstall mounting screw in nearest retainer hole. Adjust left and right side eccentric shafts (screw positions may vary from side to side). Adjust height such that horizontal arms do not contact top or bottom of tracks (align center). For Calibration procedures and Floor Level Adjustment, see Panel 4 on reverse side.



Diagnostics: Following installation, verify all lift functions and ensure that the control board correctly registers the values listed below when the corresponding action is taken. "1" will appear on the LCD screen as shown in the Illustration at right. If any other value appears on the LCD screen during the specific diagnostic procedure, verify that the correct harness is properly connected to both the control board and the associated lift harness. Repeat the harness

diagnostic procedure. If an incorrect value is still present after checking the harness and connections, contact The Braun Corporation Product Support Department at 1-800-THE-LIFT®.

All basic functions (UP, DOWN, DOOR and STOW) should show a value of 1 when activated via a controlled input (Hand-held Pendant, Magnetic, Remote Entry or 3rd Station Controls). Refer to the service manual for additional switch and sensor information.

Pump Module Control Board

LCD Display	Stowed	Moving Out Of Cassette	Full Out	Moving Up	At Floor Level	Moving Down	Ground Level	Ground Level OB Out
STLV SW				1	1			
STOW SW	1							
FOUT SW			1	1	1	1	1	1
FLV SW					1			
OBAR SW	1	1	1	1	1	1	1	
SBELT SW	= 1 When Seat Belt is Plugged In.							
MAT SW		= 1 When Mat is Activated						
IBAR SW	= 1 When IN Barrier is activated							
DO SW	= 1 When Door is Full Open. Or pin 3 and pin 4 are jumpered.							
LO VOLT								